

WHAT IS CLAIMED:

1. A surgical fastener for use with an anastomosis of two tissues, comprising:

a base leg and an upright leg, said base leg being selectively deformable and including at least one traumatic tip for piecing tissue;

at least one capillary disposed on said base leg having a reservoir defined therein for retaining a liquid, each of said at least one capillary being ruptureable upon deformation of said surgical fastener to dispense said liquid.

2. A surgical fastener for use with a surgical instrument for performing an anastomosis between two tissues wherein the surgical instrument includes a selectively engageable loading unit for supporting an array of surgical fasteners and an actuator for initiating deformation of the surgical fasteners, each of the surgical fasteners comprising:

a base leg and an upright leg, said base leg being selectively deformable and including a tip for piecing tissue;

at least one capillary disposed on said base leg having a reservoir defined therein for retaining a liquid, each of said at least one capillary being

ruptureable to dispense said liquid upon actuation of the surgical instrument and deformation of each surgical fastener.

3. A surgical fastener for use with an anastomosis according to any preceding claim wherein said liquid in said reservoir includes at least one of a bonding agent, medicinal agent and therapeutic agent.

4. A surgical fastener for use with an anastomosis according to any preceding claim wherein said reservoir includes a series of chambers, each of said chambers including a liquid disposed therein selected from the group consisting of: bonding agents, medicinal agents and therapeutic agents.

5. A surgical fastener for use with an anastomosis according to any preceding claim wherein said liquid is a bonding agent designed to adhere to tissue upon curing.

6. A surgical fastener for use with an anastomosis according to any preceding claim wherein said base leg of said surgical fastener includes first and second capillaries which are designed to sequentially rupture upon deformation.

7. A surgical fastener for use with an anastomosis according to any preceding claim wherein said first capillary includes a medicinal agent and said second capillary is designed to include a bonding agent.

8. A surgical fastener for use with an anastomosis according to any preceding claim wherein said surgical fastener includes at least two capillaries which are radially disposed along the base leg of said surgical fastener.